

Dear Examiner Pham,

Please find attached the results of your search request for application number 10/757793. I have highlighted the references that I felt were most relevant and flagged them with the green post-it flags.

The idea of a user creating a set of rules for annotations was not explicitly found. There are some systems that have been developed allowing annotations to be applied to subsequent versions of a document. Alloing, Foucher and Macquet do disclose a modification rule called a reconciliation annotation which is applied to a new version of a document. Bargeron and Gupta discuss storing annotation data separately from content and Bargeron, Moskowitz, et al, discuss a system to maintain the position of annotations within a document even after it has been modified.

Please feel free to contact me with any questions or concerns about the search and results provided.

Thank you.

Brian Mahady


Brian Mahady (ASRC MS)
Searcher
RND 4B35
X 23853

File 347:JAPIO Dec 1976-2007/Dec(Updated 080328)

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File 350:Derwent WPIX 1963-2008/UD=200858

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Set	Items	Description
S1	2727349	ANNOTAT? OR COMMENT OR COMMENTS OR COMMENTING OR MARK OR MARKS OR MARKING OR NOTAT? OR EDIT??? OR CORRECT??? OR CHANG??? OR REVIS??? OR REMARK??? OR SUGGESTION? ?
S2	190012	S1(7N)(POLICY OR POLICIES OR RULE OR RULES OR PLAN OR PLANS OR STRATEG??? OR GUIDELINE? ? OR GUIDE()LINE? ? OR PROCEDURE? ? OR PROTOCOL? ? OR DEFINITION? ? OR SYSTEM? ? OR STANDARD? ? OR CONVENTION? ?)
S3	923244	VERSION? OR COPY OR COPIES OR REVISION? OR EDITION? OR PUBLICATION? OR VARIATION? OR ADAPTATION? OR DOCUMENT? ? OR INSTANCE? ?
S4	35152	S3(7N)(FUTURE OR SUBSEQUENT OR SUCCESSIVE OR SUCCEEDING OR ENSUING OR NEXT OR NEW OR DIFFER??? OR LATER)
S5	88403	S3(7N)(MULTI OR MULTIPLE OR MULTIPLICITY OR PLURAL??? OR MORE()THAN()ONE OR SEVERAL OR MANY OR NUMEROUS OR NUMBER OR SERIES OR OTHER)
S6	113642	S4 OR S5
S7	1357	S2(15N)S6
S8	247640	(ANNOTAT? OR COMMENT OR COMMENTS OR COMMENTING OR MARK OR - MARKS OR MARKING OR NOTAT?)
S9	17814	S8(7N)(POLICY OR POLICIES OR RULE OR RULES OR PLAN OR PLANS OR STRATEG??? OR GUIDELINE? ? OR GUIDE()LINE? ? OR PROCEDURE? ? OR PROTOCOL? ? OR DEFINITION? ? OR SYSTEM? ? OR STANDARD? ? OR CONVENTION? ?)
S10	170	S9(15N)S6
S11	2903	(CREAT? OR GENERAT? OR PRODUC? OR MAKE OR MAKES OR MAKING - OR MADE OR BUILD??? OR CONSTRUCT? OR INVENT? OR ESTABLISH?)(7-N)S9
S12	55	S10 AND S11
S13	34	S12 AND PY=1963:2004
S14	36	S12 AND AY=1963:2004 AND AC=US
S15	41	S13 OR S14
S16	41	IDPAT S15 (sorted in duplicate/non-duplicate order)
S17	464	S2(15N)S4
S18	19	S11 AND S17
S19	13	S18 AND PY=1963:2004
S20	14	S18 AND AY=1963:2004 AND AC=US
S21	16	S19 OR S20
S22	730	S8(7N)S5
S23	148	S22 AND (S8(7N)(STORE OR STORES OR STORED OR STORAGE OR SERVER OR SERVERS OR DATABASE? ? OR DATA()BASE? ?))
S24	63	S22(15N)(S8(7N)(STORE OR STORES OR STORED OR STORAGE OR SERVER OR SERVERS OR DATABASE? ? OR DATA()BASE? ?))
S25	63	S24 NOT S18
S26	52	S25 AND PY=1963:2004
S27	44	S25 AND AY=1963:2004 AND AC=US
S28	58	S26 OR S27
S29	45	S28 AND IC=G06F
S30	4033	ANNOTAT?
S31	1168	S30(7N)S2
S32	62	S31 AND S4
S33	49	S32 NOT(S18 OR S30)
S34	30	S33 AND PY=1963:2004
S35	38	S33 AND AY=1963:2004 AND AC=US
S36	40	S34 OR S35

21/3,K/2 (Item 2 from file: 350) <your application>
DIALOG(R)File 350: Derwent WPIX
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Application method of annotations e.g. descriptions in computer system, involves providing interface for allowing user to specify how annotation created for version of document, is applied to subsequent versions of document

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: ALBORNOZ J; CRAGUN B J; FEIGENBAUM L D; HENDERSON K L; NELSON R R; RATH C T

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050160356	A1	20050721	US 2004757793	A	20040115	200555	B

Abstract:

Methods, systems, and articles of manufacture for maintaining annotations for changing source documents are provided. For some embodiments, an annotation **system** may support **multiple policies**, with each **policy** dictating how (or if) an **annotation** created for a **version** of a source **document** should be applied to subsequent versions of the **source document**. For some embodiments, a user creating an **annotation** may select from a group of available **policies** to be applied to the **annotation**. Basic Derwent Week: 200555

21/3,K/3 (Item 3 from file: 350) <related application>
DIALOG(R)File 350: Derwent WPIX
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Management method of annotations e.g. descriptors of text document in computer system, involves updating annotation record based on changes in document when annotation applied to document, is changed

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: CRAGUN B J; RATH C T

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050160355	A1	20050721	US 2004757792	A	20040115	200555	B

Abstract:

Methods, systems, and articles of manufacture for maintaining annotations for changing source documents are provided. For some embodiments, an annotation **system** may support multiple policies, with each policy dictating how (or if) an **annotation** created for a **version** of a source **document** should be applied to subsequent versions of the **source document**. For some embodiments, a user creating an **annotation** may select from a group of available **policies** to be applied to the **annotation**. For some embodiments, **policies** may be enforced when annotated documents are checked into a content management **system** used to manage the **annotated documents**. Basic Derwent Week: 200555

21/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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Annotated electronic intellectual property documents group provision system establishes, traverses, indicates and removes references between different portions of documents associated with annotations

Patent Assignee: KNOWLEDGE MANAGEMENT OBJECTS LLC (KNOW-N)

Inventor: LEE E M; MAY D C

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040088332	A1	20040506	US 2001315021	P	20010828	200438	B
			US 2002229273	A	20020828		
			US 2003692793	A	20031027		

Abstract:

A computer-enabled system, method, and medium is provided to support analyzing intellectual property documents by linking and **annotating** patents, copyrights, trademarks, license agreements, and other types of intellectual property documents. The invention is suitable for use by intellectual property professionals in memorializing their thought processes, work products, and reasoning, whether in preliminary or final form, and is flexible to support development and use of a rich linked set representing complex relationships in an intellectual property portfolio. Optionally, marked up, linked documents are divided into data streams, one of the data streams containing the original document for **mark-up**, and one other data stream containing the **annotation** data. The **marked-up document** may be further **revised** and/or annotated, even by **multiple** users. Basic Derwent Week: **200438**

21/3,K/6 (Item 6 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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Program source code generation method for computer system, involves reconciling current version with new version to generate reconciled version which consolidates user modification and subsequent changes in information model

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: ALLOING F; FOUCHER M; MACQUET X

Patent Family (2 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030110472	A1	20030612	US 2002138892	A	20020502	200361	B
US 7032210	B2	20060418	US 2002138892	A	20020502	200627	E

Abstracts:

computer application from an information model representing a high level specification of the computer application, comprises a step of inserting reconciliation annotations in the program **source code**, the reconciliation **annotations** representing a modification **rule** and a modification **state** for each language element contained in the **generated** source code. Then, upon receiving a current version of the program source code, the current version resulting from the modification by a user of an old generated version of the program source code, and a new generated version of the program source code, the new version reflecting changes in the application information model, a step of reconciling the current version with the new version of the program source code according to the reconciliation annotations inserted in each of the current and new program source code versions

Claims:

representing a high level specification of the computer application, said method comprising the computer-implemented steps of: inserting reconciliation annotations in said program source code, **said** reconciliation **annotations** representing at least a modification **rule** and a modification state for **each** language element contained in **said generated** source code; upon receiving a current version of said program source code, said current version resulting from the modification by a user of an old... ... in said program source code, **said** reconciliation annotations representing at least a modification rule and a modification state for each language element contained in **said generated** source code;upon receiving a current **version** of said program source code, **said** current version resulting from the modification by a user of an old generated **version** of said program source code, and a **new**

generated **version** of said program source **code**, said **new version** reflecting changes in the application information model, reconciling the current version with the new version of the program source code according to the reconciliation annotations... Basic Derwent Week: **200361**

21/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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Converting text mark-up languages by scanning document file to locate cross-reference tags and identify cross-referenced text

Patent Assignee: GARCHA M S (GARC-I); ORACLE CORP (ORAC-N)
Inventor: GARCHA M S

Patent Family (2 patents, 2 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
GB 2385686	A	20030827	GB 20024357	A	20020225	200360	B
US 20030172351	A1	20030911	US 2003370720	A	20030224	200367	E

Abstract:

referenced text; and, iii) scanning the document file to locate successive blocks of text defined between respective start and end tags of the same type **and**, for each block, **creating** equivalent tags and text in the second **mark-up** language using, where necessary, the extracted **definitions** and **cross-references** from steps i) and ii). ...

Claims:

and to identify cross-referenced text; and, iii) scanning the document file to locate successive blocks of text defined between respective start and end tags **of** the same type **and**, for each block, **creating** equivalent tags and text in the second **mark-up** language using, where necessary, the **extracted definitions** and **cross-references** from steps i) **and** ii). Basic Derwent Week: **200360**

21/3,K/9 (Item 9 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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Document search system, searches requested document by performing different notation normalization of character sequence searched using index generated while registering document

Patent Assignee: RICOH KK (RICO)
Inventor: ASADA K; HIRAOKA T; IKEDA T; KANEZAKI K; TAKEGAWA H; YAMAGATA J

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2002269136	A	20020920	JP 200171472	A	20010314	200301	B

Document search system, searches requested document by performing different notation normalization of character sequence searched using index generated while registering document Basic Derwent Week: **200301**

21/3,K/10 (Item 10 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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Apparatus for annotating electronic document, creating, managing, and sharing information by applying semantic ontology to bodies of information has device for annotating datum

with at least one concept contained in ontology

Patent Assignee: GEN DYNAMICS INFORMATION SYSTEMS INC (GEND)

Inventor: MORK J E; MURPHY M E; PHIPPS M J

Patent Family (3 patents, 91 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001056388	A2	20010809	WO 2001US3670	A	20010205	200162	B
AU 200134819	A	20010814	AU 200134819	A	20010205	200173	E
AU 2001234819	A8	20050915	AU 2001234819	A	20010205	200569	E

Abstract:

and accessed later to facilitate creation of new documents of a similar type. The system can use the information from the ontologies to automatically generate **new documents** by knowing **what type** of information to include and how to get the information. The **system** also allows users **to** create and **edit** ontologies. The **system is** user friendly **in** that it can be integrated with existing software applications with which users already are familiar... Basic Derwent Week: **200162**

21/3,K/13 (Item 13 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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Document printing and finishing method

Patent Assignee: HADEWE BV (HAD-E-N); NEOPOST BV (NEOP-N)

Inventor: EDENS B K; HIDDING G; LUINGE J

Patent Family (5 patents, 25 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 919295	A1	19990602	EP 1998204022	A	19981127	199926	B
NL 1007637	C2	19990531	NL 1007637	A	19971127	199935	E
US 6249716	B1	20010619	US 1998200732	A	19981127	200137	E
EP 919295	B1	20030219	EP 1998204022	A	19981127	200314	E
DE 69811460	E	20030327	DE 69811460	A	19981127	200329	E
			EP 1998204022	A	19981127		

Claims:

an order corresponding with the order in which the documents have been printed by the printer (2; 52), **characterized by** the printer (2; 52) repeatedly **generating** a verification **marking** following **one** of said **documents** and prior to a **next** one of said **documents**; **maintaining**, while transporting the documents to the finishing system (1; 51), an ordering of said documents and said verification markings between successive ones of those documents... and generating the verification markings has been carried out; detecting the arrival of each of the verification markings in at least one position in the **finishing system**; counting the documents whose arrival has **been** detected in an interval **limited** by at least **one** of said verification markings; comparing the counted number of said arrived documents with a reference number of said arrived documents; and generating an error message... Basic Derwent Week: **199926**

21/3,K/15 (Item 15 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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SGML system for producing format modifier and translator construction - has set of editing primitives that are applied to existing format definition and create new definition and

translator

Patent Assignee: XEROX CORP (XERO)

Inventor: FENG A

Patent Family (3 patents, 3 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 721165	A2	19960710	EP 1996300061	A	19960103	199632	B
EP 721165	A3	19970102	EP 1996300061	A	19960103	199710	E
JP 8339300	A	19961224	JP 1995338880	A	19951226	199710	E

Abstract

...A user describes the **changes** to an existing SGML document **definition** using primitive commands. The **system** then uses these **changes** to create a **new document definition** format and also to create a translator of documents from one format to the other... ...ADVANTAGE - For modifying existing document **definitions** such as those defined in Standardised Generalised **Mark-up Language** (SGML) format. Treats **definition** change and translator **creation** as one task reducing effort involved. Basic Derwent Week: **199632**

29/3,K/18 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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Multimedia content delivering and rendering system for education field, manages retrieving annotations by coupling annotation server to annotation database

Patent Assignee: BARGERON D M (BARG-I); GUPTA A (GUPT-I); MICROSOFT CORP (MICT)

Inventor: BARGERON D M; GUPTA A

Patent Family (2 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030196164	A1	20031016	US 1998100452	P	19980915	200380	B
			US 1999396984	A	19990915		
US 7051275	B2	20060523	US 1999396984	A	19990915	200635	E

Abstract:

Multiple different **versions** of the same multimedia content are **available** to a multimedia **server**. An **annotation server** maintains **annotations** corresponding to the **multimedia** content, each such **annotation** corresponding to each of the different versions of the multimedia content.

Claims:

1. A system comprising: a multimedia server having access to a **plurality** of media streams that represent **different versions** of multimedia content; an **annotation database**, coupled to the multimedia server, that **stores** a plurality of **annotations**, wherein **each** of the **plurality** of **annotations corresponds** to each of the **plurality** of media streams; and an annotation server, coupled to the annotation database, to manage storage and retrieval of the **plurality**... Basic Derwent Week: **200380**

29/3,K/13 (Item 9 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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Modified version region marking method of file, involves determining whether number of changes between regions of new version and old version of file exceeds threshold

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: MASSARO T J; VIG G W

Patent Family (1 patents, 1 & countries)									
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type		
US 20040230952	A1	20041118	US 2003438390	A	20030515	200502	B		

Abstract:

A method, apparatus, system, and signal-bearing medium that in an embodiment compare versions and mark an entire region as changed when the number of changes to the region exceeds a threshold. In contrast, when the number of changes in a region does not exceed the threshold, the individual changes are marked. In this way, a user can distinguish between versions both when the number of changes to a region is few and when the number of changes is large. Basic Derwent Week: **200502**

29/3,K/14 (Item 10 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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Mark-up tool for office, has selector to select one electronic native document stored in computer, converter to change selected document format to common format, and editor to review and/or change selected document

Patent Assignee: SMITH T W (SMIT-I); US SEC OF NAVY (USNA)
Inventor: SMITH T W

Patent Family (2 patents, 1 & countries)									
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type		
US 20040205647	A1	20041014	US 2001864819	A	20010524	200476	B		
US 6918083	B2	20050712	US 2001864819	A	20010524	200546	E		

Claims:

a user to review and/or alter a plurality of electronic native documents each of which may have different formats and each of which is **stored** in said computer, said **mark-up** tool comprising:
a) a selector for selecting **and** retrieving one of said **stored plurality** of said electronic native **documents**;
b) a converter for changing **the** format of said selected **native document** to a common format;
and c) an editor for reviewing and/or changing the selected document... Basic Derwent Week: **200476**

29/3,K/20 (Item 16 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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Information transferring system for web-based system, has several layers in which each layer appears as several entities in mark-up language to next layer

Patent Assignee: EON CO (EONE-N); HALLGREN T (HALL-I); LINDBERG H (LIND-I)
Inventor: HALLGREN T; LINDBERG H

Patent Family (2 patents, 1 & countries)									
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type		
US 20030028540	A1	20030206	US 2001773348	A	20010131	200336	B		
US 6732109	B2	20040504	US 2001773348	A	20010131	200430	E		

Claims:

or more methods and business object instances available to the application object, the methods being operable to implement behavior requested by a browser using information from the database accessed through the business object instances, the application layer appearing as a plurality of entities in a mark up language to the interaction layer; the interaction layer including a plurality of interaction objects, each interaction object including information identifying an application object and information specifying a... Basic Derwent Week: 200336

36/3,K/4 (Item 4 from file: 350) <*related application*>
DIALOG(R)File 350: Derwent WPIX
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Association method of annotations with data source family, involves generating family identifier which is associated with initial and subsequent versions of data source
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: ALBORNOZ J A; FEIGENBAUM L D; FISH D R; MARTIN S J; TRAN H T; WALL D A

Patent Family (1 patents, 1 & countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060150079	A1	20060706	US 200416221	A	20041217	200654	B

Abstract:
The present invention generally provides methods, systems, and articles of manufacture for managing an annotation system that includes storing annotations for a document family, i.e., a series of versions of a data source. Annotations created for one version of the data source may be viewed in context from both subsequent and prior versions of the same data source. Embodiments of the invention associate annotations with both a data source "family identifier" as well as a "version identifier." Other than adding a family ID to the data source, the data source remains unchanged. The family ID is maintained across different versions of the data source, whereas version IDs are determined for a specific version of the data source. Version IDs can be constructed from each data source directly, and do not need... ...

Claims:
annotation for data content in an initial version of a data source; generating a family identifier, wherein the family identifier is associated with the initial version of the data source and with subsequent versions of the data source; obtaining annotation content for a first annotation associated with a portion of data content in the initial version of the data... Basic Derwent Week: 200654

36/3,K/7 (Item 7 from file: 350) <*related application*>
DIALOG(R)File 350: Derwent WPIX
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Creation method of new annotation to data source like electronic document, involves generating data source version identifier and adding to received annotation text, on new annotation record creation
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: ALBORNOZ J; FEIGENBAUM L; HENDERSON K L

Patent Family (2 patents, 1 & countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050165852	A1	20050728	US 2004759965	A	20040116	200556	B
US 7254593	B2	20070807	US 2004759965	A	20040116	200753	E

Abstract:
a data source, and for carrying forward annotations to a data source when the data source is modified. According to the method for creating a new annotation, a data source version identifier is generated

based on a current version of the data source, and text of the annotation is received. A new annotation record is added to an annotation data store, with the **new** annotation record including the data source **version** identifier that was generated and the text of the annotation. In one embodiment, the new annotation record further includes point information indicating coordinates of at....

Claims:

on a current version of the data source; receiving text of the annotation; and adding a new annotation record to an annotation data store, the **new** annotation record including the data source **version** identifier that was generated and the text of the annotation... ... version identifier based on a modified version of the data source, the modified version having at least one of content, form, and structure that is **different** from the prior **version**; querying the annotation data store for the annotations that apply to the prior **version** of the data source; and adding a **new** entry into the annotation record of at least one of the annotations that is returned by the query, the new entry in the annotation record...
Basic Derwent Week: 200556

36/3,K/9 (Item 9 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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Annotation method for electronic document e.g. web page, involves storing annotations for highlighting specific portions of document within document, while changing display position based on color jump command

Patent Assignee: CALIFORNIA INST OF TECHNOLOGY (CALY); EPSTEIN D L (EPST-I)

Inventor: EPSTEIN D; EPSTEIN D L

Patent Family (2 patents, 106 & countries)								
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type	
WO 2005048079	A2	20050526	WO 2004US37780	A	20041112	200544	B	
US 20050193325	A1	20050901	US 2003519721	P	20031112	200558	E	
			US 2004987449	A	20041112			

Abstract:

the computer, wherein each project may comprise one or more documents that are associated with one another. The contents of the documents can be annotated, **in** a way which makes that contents look **different** on viewing. The jumping between the **different** annotations either **in the same documents**, or **in documents associated** with the project, is enabled. When the project is closed, the positions of the frames within the project are saved to a single file, which enables that project to be reconstructed on a different computer. In addition, **selection** of anything within the **document** allows automatically sending that information to another program... ... Basic Derwent Week:
2004WO-US0037780

36/3,K/12 (Item 1 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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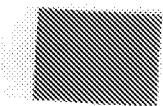
Digital document processing method in pen computer, involves classifying annotations in digital document, according to characteristics such as grouped ink strokes and contextual information

Patent Assignee: BARGERON D M (BARG-I); MICROSOFT CORP (MICT); MOSCOVICH T (MOSC-I); SHILMAN M (SHIL-I); WEI Z (WEIZ-I)

Inventor: BARGERON D; BARGERON D M; MOSCOVICH T; SHILMAN M; WEI Z; WEL Z

Patent Family (13 patents, 42 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1486883	A2	20041215	EP 200413747	A	20040611	200504	B
JP 2005004774	A	20050106	JP 2004174745	A	20040611	200504	E
US 20040252888	A1	20041216	US 2003460999	A	20030613	200504	E
CA 2470725	A1	20041213	CA 2470725	A	20040610	200505	E
AU 2004202589	A1	20050106	AU 2004202589	A	20040610	200510	E
KR 2004107446	A	20041220	KR 200443697	A	20040614	200526	E
BR 200403881	A	20050607	BR 20043881	A	20040611	200538	E
CN 1609846	A	20050427	CN 200410063987	A	20040614	200558	E
MX 2004005725	A1	20050601	MX 20045725	A	20040611	200604	E
IN 200401091	I1	20060623	IN 2004DE1091	A	20040610	200648	E
US 7218783	B2	20070515	US 2003460999	A	20030613	200732	E
US 20070214407	A1	20070913	US 2003460999	A	20030613	200762	E
			US 2007748334	A	20070514		
EP 1486883	A3	20071226				200803	E



Abstract:

A digital ink **annotation** process and **system** for processing digital documents and digital ink **annotations** therein. The process and **system** maintain an **annotation**'s position within a document such that the original intent and meaning of the annotation is preserved. This is true even if the **document** is edited, resized, displayed on a **different** device or otherwise modified. The digital ink annotation process includes automatic and manual grouping of digital ink strokes within a document to define digital ink... ... according to annotation type, and anchoring the annotations to appropriate regions or positions in a document. The process further includes reflowing the annotations in a **new document** layout such that the annotations conform and adapt to the new layout while preserving the original intents and meanings of the **annotations**. A digital ink **annotation system** includes a classification module, an anchoring module, a reflow module and a clean-up module to implement the digital ink annotation process... ...

Claims:

in the digital document with which the digital ink annotation is associated to generate an annotation anchor; andreflowing the digital ink annotation in a **new** layout of the digital **document**.... ... in the digital document with which the digital ink annotation is associated to generate an annotation anchor; andreflowing the digital ink annotation in a **new** layout of the digital **document**.... ... in the digital document with which the digital ink annotation is associated to generate an annotation anchor; andreflowing the digital ink annotation in a **new** layout of the digital **document**.... ... What is claimed is: 1. A process for reflowing digital ink strokes from an original digital document having a first layout in a modified digital **document** having a second layout that is **different** from the first layout, comprising: grouping the digital ink strokes to define a first digital ink annotation; classifying the first digital ink annotation as a
Basic Derwent Week: **200504**

36/3,K/20 (Item 20 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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Digital conversion system for markings e.g. annotation in document, detects and converts radiation frequencies into digital form representing subsequent marking and original material

Patent Assignee: HEWLETT-PACKARD DEV CO (HEWP)

Inventor: CARIFFE A E

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6561422	B1	20030513	US 1999303944	A	19990503	200361	B

Claims:

What is claimed is: 1. A digital conversion system for digitally converting an original document containing original material on an original **plane** and **subsequent** edit markings on other planes **different** from the original plane, comprising: at least one marking agent that creates the subsequent edit markings, each marking agent being associated with a respective readable... Basic Derwent Week: **200361**

File 348:EUROPEAN PATENTS 1978-200836
(c) 2008 European Patent Office
File 349:PCT FULLTEXT 1979-2008/UB=20080904|UT=20080828
(c) 2008 WIPO/Thomson

Set	Items	Description
S1	329797	ANNOTAT? OR COMMENT OR COMMENTS OR COMMENTING OR MARK OR MARKS OR MARKING OR NOTAT?
S2	34388	S1(7N)(POLICY OR POLICIES OR RULE OR RULES OR PLAN OR PLANS OR STRATEG??? OR GUIDELINE? ? OR GUIDE()LINE? ? OR PROCEDURE? ? OR PROTOCOL? ? OR DEFINITION? ? OR SYSTEM? ? OR STANDARD? ? OR CONVENTION? ?)
S3	2274920	VERSION? OR COPY OR COPIES OR REVISION? OR EDITION? OR PUBLICATION? OR VARIATION? OR ADAPTATION? OR DOCUMENT? ? OR INSTANCE? ?
S4	226963	S3(7N)(FUTURE OR SUBSEQUENT OR SUCCESSIVE OR SUCCEEDING OR ENSUING OR NEXT OR NEW OR DIFFER??? OR LATER)
S5	540614	S3(7N)(MULTI OR MULTIPLE OR MULTIPLICITY OR PLURAL??? OR MORE()THAN()ONE OR SEVERAL OR MANY OR NUMEROUS OR NUMBER OR SERIES OR OTHER)
S6	619966	S4 OR S5
S7	659	S2(15N)S6
S8	7211	(CREAT? OR GENERAT? OR PRODUC? OR MAKE OR MAKES OR MAKING - OR MADE OR BUILD??? OR CONSTRUCT? OR INVENT? OR ESTABLISH?)(7-N)S2
S9	133	S8(15N)S6
S10	49	S8(15N)S4
S11	32	S10 AND PY=1978:2004
S12	34	S10 AND AY=1978:2004 AND AC=US
S13	40	S11 OR S12
S14	40	IDPAT S13 (sorted in duplicate/non-duplicate order)
S15	14902	ANNOTAT?
S16	2328	S15(7N)S2
S17	165	S16(15N)S6
S18	151	S17 NOT S10
S19	721	S8(15N)S16
S20	67	S19(15N)S6
S21	53	S20 NOT S10
S22	27	S21 AND PY=1978:2004
S23	35	S21 AND AY=1978:2004 AND AC=US
S24	39	S22 OR S23
S25	39	IDPAT S24 (sorted in duplicate/non-duplicate order)
S26	79	S8(15N)(S15(7N)(POLICY OR POLICIES OR RULE OR RULES))
S27	70	S26 NOT(S10 OR S20)
S28	46	S27 AND PY=1978:2004
S29	54	S27 AND AY=1978:2004 AND AC=US
S30	56	S28 OR S29
S31	56	IDPAT S30 (sorted in duplicate/non-duplicate order)
S32	33	S31 AND IC=G06F

14/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348: EUROPEAN PATENTS
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A method of annotating, retrieving and rendering a markup language document with digital ink annotations

Patent Assignee:

- **Avaya Technology Corp.**; (3148500)
211 Mount Airy Road; Basking Ridge, NJ 07920; (US)
(Applicant designated States: all)

Inventor:

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- **Ramachandran, Sriram**
233 Mount Airy Road; Basking RidgeNew Jersey NJ 07920-2331; (US)

Legal Representative:

- **Epping - Hermann - Fischer (101754)**
Patentanwaltsgeellschaft mbH Ridlerstrasse 55; 80339 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1610230	A2	20051228	(Basic)
	EP	1610230	A3	20080220	
Application	EP	2005013609		20050623	
Priorities	US	877004		20040624	

Specification: Another object of the present invention is to provide a general purpose ink association which allows for both the dynamic nature and the rendering **variations** caused by using **different** browsers and **different** devices. Yet another object of the present **invention** is provide a **system** and method for robustly associating digital ink **annotations** with elements within a digital document. A further object of the present invention is to provide a system and method for the efficient, standardized storage...

14/3,K/9 (Item 9 from file: 348)
DIALOG(R)File 348: EUROPEAN PATENTS
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Digital ink annotation process and system for recognizing, anchoring and reflowing digital ink annotations

Patent Assignee:

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(Applicant designated States: all)

Inventor:

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- **Moscovich, Tomer**
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- **Shilman, Michael**
433 13th Avenue E, 205; Seattle, WA 98102; (US)
- **Wei, Zile**
2020 Channing Way, Apt. 4A; Berkeley, CA 94704; (US)

Legal Representative:

- **Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)**
Maximilianstrasse 58; 80538 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1486883	A2	20041215	(Basic)
	EP	1486883	A3	20071226	
Application	EP	2004013747		20040611	
Priorities	US	460999		20030613	

Specification: ...method are needed that preserve the intent and visual meaning of digital ink annotations whenever an original document is modified.

The **invention** disclosed herein includes a digital ink **annotation** process and **system** for preserving the intent and meaning of digital ink annotations in an original **document** whenever the original **document** takes on a **new** layout as a result of being edited or displayed on a different display device or in a different window size. In general, the process and...

14/3,K/17 (Item 17 from file: 348)
DIALOG(R)File 348: EUROPEAN PATENTS
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Annotating objects in display screen windows**Patent Assignee:**

- **International Business Machines Corporation;** (200120)
Old Orchard Road; Armonk, N.Y. 10504; (US)
(applicant designated states: AT;BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)

Inventor:

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- **Smilowitz, Elissa Dawn**
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Legal Representative:

- **Burt, Roger James, Dr. (52152)**

IBM United Kingdom Limited Intellectual Property Department Hursley Park; Winchester Hampshire SO21 2JN; (GB)

	Country	Number	Kind	Date
Patent	EP	612006	A1	19940824 (Basic)
	EP	612006	B1	19980422
Application	EP	94301022		19940211
Priorities	US	18679		19930217

Specification: ...users viewing a large document in a window could attach a note to the window to remind themselves where they left off in reading the **document**. The **next** day, upon viewing the same **document**, the note would automatically appear.

The detailed embodiment of the **invention** is implemented as an **annotation** control in the OS/2 operating **system**. In the preferred embodiment the **annotation** control is implemented in a computer program which allows a user to create notes associated with objects viewed through windows.

25/3,K/2 (Item 2 from file: 348)
 DIALOG(R)File 348: EUROPEAN PATENTS
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FREEFORM DIGITAL INK ANNOTATION RECOGNITION

Patent Assignee:

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 (Applicant designated States: all)

Inventor:

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- **Shilman, Michael**
 c/o Microsoft Corporation One Microsoft Way,; 98052, Redmond; (US)
- **Wei, Zile**
 c/o Microsoft Corporation One Microsoft Way,; 98052, Redmond; (US)

Legal Representative:

- **Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)**
 Maximilianstrasse 58; 80538 Munchen; (DE)

	Country	Number	Kind	Date
Patent	EP	1635268	A2	20060315 (Basic)
	EP	1635268	A3	20070124
Application	EP	2005108068		20050902

	Country	Number	Kind	Date
Priorities	US	934306		20040903

Specification: Digital ink strokes can also be recognized non-real-time as a background process.

In FIG. 1, a block diagram of an **annotation** recognition system 100 in accordance with an aspect of the present invention is shown. The annotation recognition system 100 is comprised of an annotation recognition... ...to FIG. 3, yet another block diagram of an annotation recognition system 300 in accordance with an aspect of the present invention is illustrated. The **annotation** recognition **system** 300 is comprised of an **annotation** recognition component 302 that receives strokes 304 and document context 306 inputs and provides a parse tree output 308. The annotation recognition component 302 is... ...component 314 produces the parse tree output 308 with anchors into the document context.

Looking at FIG. 4, still yet another block diagram of an **annotation** recognition **system** 400 in accordance with an aspect of the present **invention** is shown. The **annotation** recognition **system** 400 is comprised of an **annotation** component 402 that receives various inputs 404-410 and produces outputs that effect/pertain to a document 412. This instance of the present invention illustrates...

25/3,K/4 (Item 4 from file: 348)
DIALOG(R)File 348: EUROPEAN PATENTS
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System and method for annotating documents

Patent Assignee:

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Legal Representative:

- **HOFFMANN EITLE (101511)**
Patent- und Rechtsanwälte Arabellastrasse 4; 81925 Munchen; (DE)

	Country	Number	Kind	Date
Patent	EP	1548611	A2	20050629 (Basic)
	EP	1548611	A3	20080109
Application	EP	2004030485		20041222
Priorities	US	707582		20031222

Specification: Once the digital paper is identified, the hardcopy of the document is printed and the association with the digital paper is **established** in the **annotation** manager service database.
Reviewer Audit System

In another illustrative embodiment of the present application, the **annotation** manager **system** is adapted to audit certain characteristics of a reviewer who is engaged in **document** review.

Several groups of people routinely review **documents** written by others. For example, professors often use graders to grade papers or exams submitted in courses having a large number of students.

25/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348: EUROPEAN PATENTS
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File management method, file management device, annotation information generation method, and annotation information generation device

Patent Assignee:

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(Applicant designated States: all)

Inventor:

- **Nagasaki, Fumio**
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Legal Representative:

- **Sturt, Clifford Mark et al (50502)**
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	Country	Number	Kind	Date	
Patent	EP	1473643	A2	20041103	(Basic)
	EP	1473643	A3	20051221	
Application	EP	2004252393		20040423	
Priorities	JP	2003124674		20030430	
	JP	2003124673		20030430	
	JP	2003155100		20030530	
	JP	200438265		20040216	

Specification: The technique of the fourth embodiment is, however, not restricted to image files but is also applicable to **other** types of files including audio files, **document** files, and program files to utilize icons for entry of the user control item and **generate annotation** data. One available **procedure** displays icons corresponding to files and relate an icon corresponding to a desired label to an icon corresponding to a desired file.

25/3,K/9 (Item 9 from file: 348)

Method and apparatus for forward annotating documents and for generating a summary from a document image

Patent Assignee:

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(Proprietor designated states: all)

Inventor:

- **Kuruoglu, Ecran E.**
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Legal Representative:

- **Holmes, Miles Keeton et al (72835)**
Novagraaf International SA 25, Avenue du Pailly; 1220 Les Avanchets - Geneva; (CH)

	Country	Number	Kind	Date
Patent	EP	1304625	A2	20030423 (Basic)
	EP	1304625	A3	20050720
	EP	1304625	B1	20070110
Application	EP	2002022944		20021011
Priorities	US	981835		20011019
	US	982024		20011019

Specification: ...coloring) or other technique for visually indicating a section of the document.

Preferably, the keywords are derived from a source document which has been previously **annotated** by a user. The **system** may thus be referred to as a "forward **annotation**" **system** for automatically "forwarding" **annotations made** to a source document into equivalent **annotations** of a target document.

Preferably, the source **document** may be either a paper (or other physical) **document**, or an electronic **document** (e.g., a text file).

Preferably, the target document may be either a paper (or other physical) **document**, or an electronic **document** (e.g., a... embodiment is to automatically annotate a "target" document 25 which a user may desire to read, to indicate regions of interest based on previously stored **annotations** from other "source" **documents** 26. The **system produces** an **annotated** target document 27 that is based on external annotations previously made by the same user (or other users) to one or more previous documents

Method for manipulating digital text data

Patent Assignee:

- **XEROX CORPORATION; (219781)**
Xerox Square - 020; Rochester New York 14644; (US)
(applicant designated states: DE;FR;GB)

Inventor:

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- **Abbott, Curtis**
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- **Smith, Brian C.**
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Legal Representative:

- **Mackett, Margaret Dawn et al (60332)**
Rank Xerox Ltd Patent Department Parkway; Marlow Buckinghamshire SL7 1YL; (GB)

	Country	Number	Kind	Date
Patent	EP	370778	A2	19900530 (Basic)
	EP	370778	A3	19911121
	EP	370778	B1	19980603
Application	EP	89312093		19891121
Priorities	US	274158		19881121

Specification: To indicate its autonomous punctuational structure, the text can be converted to a tree-like data structure that includes structure data or can be **annotated** with structure data.

A special set of **rules**, referred to as a **structure-building** grammar, could be developed to convert text to an autonomous punctuational data structure. For example, a structure-building grammar could map from input actions on...

SYSTEM AND METHOD FOR VISUAL ANNOTATION AND KNOWLEDGE REPRESENTATION

Patent Applicant/Patent Assignee:

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US; US (Residence); US (Nationality)
(For all designated states except: US)

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- **LAUMAN Jason R**; 765 East Ninth Avenue, Salt Lake City, UT 84103
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- **COCHELLA Christopher**; 864 South Diestel Road, Salt Lake City, UT 84105
US; US (Residence); US (Nationality)

Patent Applicant/Inventor:

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864 South Diestel Road, Salt Lake City, UT 84105; US; US (Residence); US (Nationality);

Legal Representative:

- **CLAYTON Grant R(agent)**
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	Country	Number	Kind	Date
Patent	WO	200457439	A2-A3	20040708
Application	WO	2003US17138		20030531
Priorities	US	2002384703		20020531

Claims:

...may or may not be aided by human user input to analyze and deduce new visual and non-visual information from the pre-existing **annotated** information using a set of defined **rules** in the illustrative embodiments of the present **invention**. The deductor is a mechanism for automating information manipulation within the annotation process that may require a mix of human input and computer algorithms...

32/3,K/31 (Item 23 from file: 349)
DIALOG(R)File 349: PCT FULLTEXT
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METHOD OF ANNOTATING DISPLAYS AND AN ANNOTATION MODULE

Patent Applicant/Patent Assignee:

- **NATIONAL COMPUTER BOARD acting through its R & D DIVISION THE INFORMATION TECHNOLOGY INSTITUTE; ; ;**
- **LAI Kok Fung; ; ;**
- **LEE Cjin Pheow; ; ;**

	Country	Number	Kind	Date
Patent	WO	9854654	A1	19981203

	Country	Number	Kind	Date
Application	WO	97SG22		19970530
Priorities	WO	97SG22		19970530

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 File 60:ANTE: Abstracts in New Tech & Engineer 1966-2008/Jul
 (c) 2008 CSA.
 File 438:Library Lit. & Info. Science 1984-2008/Jul
 (c) 2008 The HW Wilson Co

References in this
 packet are available
 full text via ACM

PToNet Home
 ↳ Resources
 ↳ NPL
 ↳ Z100
 ↳ Database <
 ↳ ACM

Set	Items	Description
S1	572204	ANNOTAT? OR COMMENT OR COMMENTS OR COMMENTING OR MARK OR M- ARKS OR MARKING OR NOTAT?
S2	48033	S1(7N)(POLICY OR POLICIES OR RULE OR RULES OR PLAN OR PLANS OR STRATEG??? OR GUIDELINE? ? OR GUIDE()LINE? ? OR PROCEDURE? ? OR PROTOCOL? ? OR DEFINITION? ? OR SYSTEM? ? OR STANDARD? ? OR CONVENTION? ?)
S3	6142432	VERSION? OR COPY OR COPIES OR REVISION? OR EDITION? OR PUB- LICATION? OR VARIATION? OR ADAPTATION? OR DOCUMENT? ? OR INST- ANCE? ?
S4	316188	S3(7N)(FUTURE OR SUBSEQUENT OR SUCCESSIVE OR SUCCEEDING OR ENSUING OR NEXT OR NEW OR DIFFER??? OR LATER)
S5	361453	S3(7N)(MULTI OR MULTIPLE OR MULTIPLICITY OR PLURAL??? OR M- ORE()THAN()ONE OR SEVERAL OR MANY OR NUMEROUS OR NUMBER OR SE- RIES OR OTHER)
S6	648869	S4 OR S5
S7	5137	(CREAT? OR GENERAT? OR PRODUC? OR MAKE OR MAKES OR MAKING - OR MADE OR BUILD??? OR CONSTRUCT? OR INVENT? OR ESTABLISH?)(7- N)S2
S8	56	S7(15N)S6
S9	46	S8 NOT PY>2004
S10	28	RD S9 (unique items)
S11	7035	ANNOTAT?(7N)(POLICY OR POLICIES OR RULE OR RULES OR PLAN OR PLANS OR STRATEG??? OR GUIDELINE? ? OR GUIDE()LINE? ? OR PRO- CEDURE? ? OR PROTOCOL? ? OR DEFINITION? ? OR SYSTEM? ? OR STA- NDAR? ? OR CONVENTION? ?)
S12	963	S11(7N)(CREAT? OR GENERAT? OR PRODUC? OR MAKE OR MAKES OR - MAKING OR MADE OR BUILD??? OR CONSTRUCT? OR INVENT? OR ESTABL- ISH?)
S13	34	S12 AND S4
S14	19	S13 NOT S8
S15	9	S14 NOT PY>2004

S16 6 RD S15 (unique items)
S17 255 S4(7N)ANNOTAT?
S18 242 S17 NOT (S8 OR S13)
S19 155 S18 NOT PY>2004
S20 102 RD S19 (unique items)
S21 3 S20 AND (ANNOTAT?(3N)(STORE OR STORES OR SERVER OR SERVERS
OR DATABASE? ? OR DATA()(BASE OR BASES)))
S22 99 S20 NOT S21
S23 0 AU=(ALBORNOZ, JORDI? OR ALBORNOZ JORDI?)
S24 17 AU=(CRAGUN, BRIAN J? OR CRAGUN BRIAN J?)
S25 16 RD S24 (unique items)
S26 16 S25 NOT PY>2004
S27 0 AU=(FEIGENBAUM, LEE D? OR FEIGENBAUM LEE D?)
S28 2 AU=(HENDERSON, KYLE L? OR HENDERSON KYLE L?)
S29 2 S28 NOT S26
S30 2 S29 NOT PY>2004
S31 9 AU=(NELSON, ROBERT R? OR NELSON ROBERT R?)
S32 9 S31 NOT S26
S33 9 S32 NOT PY>2004
S34 2 AU=(RATH, CALE T? OR RATH CALE T?)
S35 2 S34 NOT PY>2004
S36 1 S35 NOT S26

10/5/5 (Item 5 from file: 8)
DIALOG(R)File 8: EI Compendex(R)
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IDDS: An interactive decentralized documentation system

Meinel, Christoph; Sack, Harald; Schillings, Volker
Author Affil.: FB IV - Informatik Universitat Trier, D-54286 Trier, Germany
Conference Title: SIGDOC 2001: Special Interest Group for Documentation Proceedings of the 19th Annual International Conference on Systems Documentation Communication in the New Millennium
Conference Location: Santa Fe, NM, United States **Conference Date:** 20011021-20011024
Sponsor: ACM SIGDOC ACM SIGDOC Annual International Conference on Computer Documentation, Proceedings 2001. p 165-171
Publication Year: 2001
Document Type: CA; (Conference Article) **Language:** English

The paper describes the design and the application of an Interactive Decentralized Documentation System (IDDS). IDDS is a web-based, interactive documentation system that is especially designed for the support of working groups distributed over many places. It enables the creation of "just-in-time"-documentation and provides authoring tools for multimedia **documents** supporting **multiple authors per document** including a **versioning** system. IDDS provides an HTML-frontend for being accessible anywhere with a **standard** web-browser for **creating**, reading, or **commenting** on the provided documentation. The workflow of IDDS includes an interactive and guided reviewing process of the documentation including security mechanisms that are designed to maintain a high quality of the created documentation. Furthermore, first experiences of the application of IDDS in a system and network-administration environment are given. 9 Refs.

10/5/6 (Item 6 from file: 8)
DIALOG(R)File 8: EI Compendex(R)
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Robust annotation positioning in digital documents

Brush, A.J.B.; Bargeron, D.; Gupta, A.; Cadiz, J.J.
Author Affil.: Computer Science and Eng. Dept. University of Washington, Seattle, WA 98195, United States
Conference Title: Conference on Human Factors in Computing Systems CHI 2001 Anyone. Anywhere
Conference Location: Seattle, WA, United States **Conference Date:** 20010331-20010405
Sponsor: Diamon Bullet Design; Microsoft Corporation; Motorola; National Science Foundation; Siebel; Sun Microsystems
Conference on Human Factors in Computing Systems - Proceedings 2001. p 285-292
Publication Year: 2001
Document Type: CA; (Conference Article) **Language:** English

Increasingly, documents exist primarily in digital form. System designers have recently focused on making it easier to read digital **documents**, with annotation as an important **new** feature. But supporting annotation well is difficult because digital documents are frequently modified, **making** it challenging to correctly reposition **annotations** in modified versions. Few **systems** have addressed this issue, and even fewer have approached the problem from the users' point of view. This paper reports the results of two studies examining user expectations for "robust" annotation positioning in modified documents. We explore how users react to lost annotations, the relationship between types of document modifications and user expectations, and whether users pay attention to text surrounding their annotations. Our results could contribute substantially to effective digital document annotation systems. 22 Refs.

10/5/28 (Item 1 from file: 60)
DIALOG(R)File 60: ANTE: Abstracts in New Tech & Engineer

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Method and apparatus for collaborative annotation of a document

Kuruoglu, Ercan E; Taylor, Alex S; Seeger, Mauritius; Taylor, Stuart A , USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=73 46841.PN.&OS=pn/7346841&RS=PN/7346841>

Document Type: Patent **Record Type:** Abstract

Language: English

File Segment: ANTE: Abstracts in New Technologies and Engineering

Abstract:

A system enables users at different locations (e.g. **different** geographic locations) to work collaboratively on a **document**, and to view each **other's** annotations to the **document**. Each user can work with a paper document, and **make** handwritten **annotations** to the paper **document**. The **system** includes a **plurality** of workstations communicating with a server. Each workstation comprises a document-imaging device, such as a camera, for generating a digital image of the document. Handwritten annotations are identified by image processing, and new annotations made by each user can be tracked in real time. Image bitmaps of the annotations are distributed by the server to each workstation so that each user can view other user's annotations. In one view, the annotations from different users are superimposed in a combined image.

16/5/1 (Item 1 from file: 8)

DIALOG(R)File 8: EI Compendex(R)

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Reflowing digital ink annotations

Bargeron, David; Moscovich, Tomer

Author Affil.: Microsoft Research, Redmond, WA 98052, United States

Conference Title: The CHI 2003 New Horizons Conference Proceedings: Conference on Human Factors in Computing Systems

Conference Location: Ft. Lauderdale, FL, United States **Conference Date:** 20030405-20030410

Sponsor: SIGCHI Conference on Human Factors in Computing Systems - Proceedings 2003. p 385-392

Publication Year: 2003

Document Type: CA; (Conference Article) **Language:** English

Annotating paper documents with a pen is a familiar and indispensable activity across a wide variety of work and educational settings. Recent developments in pen-based computing promise to bring this experience to digital documents. However, digital documents are more flexible than their paper counterparts. When a digital **document** is edited, or displayed on **different** devices, its layout adapts to the new situation. Freeform digital ink annotations made on such a document must likewise adapt, or "reflow." But their unconstrained nature yields only vague guidelines for how these annotations should be transformed. Few systems have considered this issue, and still fewer have addressed it from a user's point of view. This paper reports the results of a study of user expectations for reflowing digital ink annotations. We explore user reaction to reflow in common cases, how sensitive users are to reflow errors, and how important it is that personal style survive reflow. Our findings can help designers and **system builders** support freeform **annotation** more effectively. 18 Refs.

22/5/11 (Item 11 from file: 8)

DIALOG(R)File 8: EI Compendex(R)

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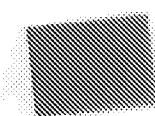
Moving markup: Repositioning freeform annotations

Golovchinsky, Gene; Denoue, Laurent

Author Affil.: FX Palo Alto Laboratory, Inc. Bldg. 4, Palo Alto, CA 94304, United States

Conference Title: Proceedings of the 15th Annual Symposium on User Interface Software and Technology

Conference Location: Paris, France **Conference Date:** 20021027-20021030
Sponsor: ACM SIGCHI UIST (User Interface Software and Technology): Proceedings of the ACM Symposium 2002. p 21-29
Publication Year: 2002 **CODEN:** UISTFM
Document Type: CA; (Conference Article) **Language:** English



Freeform digital ink annotation allows readers to interact with documents in an intuitive and familiar manner. Such marks are easy to manage on static documents, and provide a familiar annotation experience. In this paper, we describe an implementation of a freeform annotation system that accommodates dynamic document layout. The algorithm preserves the correct position of **annotations** when **documents** are viewed with **different** fonts or font sizes, with different aspect ratios, or on different devices. We explore a range of heuristics and algorithms required to handle common types of annotation, and conclude with a discussion of possible extensions to handle special kinds of annotations and changes to documents. 17 Refs.

22/5/21 (Item 21 from file: 8)
DIALOG(R)File 8: EI Compendex(R)
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Using annotations to support multiple kinds of versioning in an object-oriented database system.
Sciore, Edward
Author Affil.: Boston Coll, Chestnut Hill, MA, USA
ACM Transactions on Database Systems v 16 n 3 Sep 1991 p 417-438
Publication Year: 1991 **CODEN:** ATDSD3 **ISSN:** 0362-5915
Document Type: JA; (Journal Article) **Language:** English

The concept of annotation from object-oriented languages is adapted to object-oriented databases. It is shown how annotations can be used to model activities such as constraint checking, default values, and triggers. **Annotations** also are an appropriate way to model **different versioning** concepts. This paper discusses three kinds of versioning - histories, revisions, and alternatives - and demonstrates how each one can be modeled effectively using annotations. The use of annotations also allows other kinds of versioning to be defined extensibly, and arbitrary combinations of versions can be handled easily. (Author abstract) 23 Refs.

22/5/23 (Item 23 from file: 8)
DIALOG(R)File 8: EI Compendex(R)
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ARRANGEMENT TO PROVIDE NEW ANNOTATION LOCATIONS IN A DOCUMENT.
Anon IBM Technical Disclosure Bulletin v 28 n 5 Oct 1985 p 1994-1995
Publication Year: 1985 **CODEN:** IBMTAA **ISSN:** 0018-8689
Document Type: JA; (Journal Article) **Language:** ENGLISH

A method is described to provide for the positioning of the 'footnote' text at the end of chapters, sections, etc., as well as the end of pages and documents. In addition, it is desirable to allow end of page positioning to optionally not overflow to subsequent pages. The new **annotation** method supports several **new** locations for the **annotation** text within the **document**. Two of these locations support the 'footnote' application.

22/5/30 (Item 5 from file: 35)
DIALOG(R)File 35: Dissertation Abs Online
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Annotating digital documents for asynchronous collaboration
Author: Brush, Alice Jane Bernheim **Degree:** Ph.D.
Year: 2002

Corporate Source/Institution: University of Washington (0250) Chairperson: Alan Borning
Source: Volume 6311B of Dissertations Abstracts International. PAGE 5324 . 109 PAGES
ISBN: 0-493-91900-7

Annotations are a natural way to record comments and ideas in specific contexts within a document. When people read, they often underline important parts of a document or write notes in the margin. While we typically think of annotating paper documents, systems that support annotating digital documents are becoming increasingly common. Annotations on digital documents are easily shared among groups of people, making them valuable for a wide variety of tasks, including online discussion and providing feedback.

This research explores three issues that arise when using annotations for asynchronous collaboration. First, I present the results of using a prototype annotation system, WebAnn, to support online discussions in an educational setting. In a field study in a graduate class, students contributed twice as much content to the discussion using annotations compared to a traditional bulletin board. Annotations also encouraged a different discussion style that focused on specific points in the paper being discussed. The study results suggest valuable improvements to the annotation system and factors to consider when incorporating online discussion into a class.

Second, I examine providing appropriate notification mechanisms to support online discussion using annotations. After studying notifications in a large-scale commercial system and finding them lacking, I designed and deployed enhancements to the system. A field study of the new notifications found that overall awareness of annotation activity on software specifications increased with my enhancements. The study also found that providing more information in notification messages, supporting multiple communication channels through which notifications can be received, and allowing customization of notification messages were particularly important.

Third, I explore how to anchor annotations robustly to documents to meet user expectations on documents that evolve over time. I describe two studies designed to explore what users expect to happen to their annotations. The studies suggest that users focused on how well unique words in the text that they **annotated** were tracked among **successive versions** of the **document**. Based on this observation, I designed the Keyword Anchoring algorithm, which locates an appropriate new position for an annotation using unique words in the text annotated by the user.

26/5/1 (Item 1 from file: 8)
DIALOG(R)File 8: EI Compendex(R)
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DECISION-TABLE-BASED PROCESSOR FOR CHECKING COMPLETENESS AND CONSISTENCY IN RULE-BASED EXPERT SYSTEMS.

Cragun, Brian J.; Steudel, Harold J.
Author Affil.: IBM, Rochester, MN, USA
International Journal of Man-Machine Studies v 26 n 5 May 1987 p 633-648
Publication Year: 1987 **CODEN:** IJMMBC **ISSN:** 0020-7373
Document Type: JA; (Journal Article) **Language:** ENGLISH

This paper addresses the issues of completeness and consistency in rule-based expert systems. The approach presented uses decision tables, which have a close relationship to rule-based knowledge bases. A decision-table-supported processor is described which checks knowledge bases for completeness and consistency using this approach. It creates a large decision table from the rules of the knowledge base, splits the decision table into subtables with similar logic, checks each subtable for completeness and consistency, and reports any missing rules. This method is faster than enumeration only methods of checking completeness, and provides implicit context determination of production rules. (Author abstract) 8 refs.

26/5/7 (Item 6 from file: 60)
DIALOG(R)File 60: ANTE: Abstracts in New Tech & Engineer
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Including annotation data with disparate relational data

Cragun, Brian J; Fish, Douglas R; Rath, Cale T; Tran, Hoa T , USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HIOFF&u=/netacgi/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=73 73342.PN.&OS=pn/7373342&RS=PN/7373342>

Document Type: Patent **Record Type:** Abstract

Language: English

File Segment: ANTE: Abstracts in New Technologies and Engineering

Abstract:

Methods, systems, and articles of manufacture that may be used for identifying and indicating annotations made for a variety of different type (i.e., heterogeneous) data objects are provided. According to some embodiments, an annotation store may be queried to identify annotations for data objects in a current view of data. For certain identifiable portions of the view (e.g., a row in a relational view), a callable function may be created that returns a set of indicia maps indicating which objects in the portions are annotated. Bits in an indicia map may correspond to different objects (e.g., individual cells in a row or the row itself). Using these indicia maps, an indication of which data objects are annotated may be provided in the view, for example, by displaying annotation icons proximate annotated objects.

File 275:Gale Group Computer DB(TM) 1983-2008/Sep 05
 (c) 2008 Gale/Cengage
 File 621:Gale Group New Prod.Annou.(R) 1985-2008/Aug 26
 (c) 2008 Gale/Cengage
 File 636:Gale Group Newsletter DB(TM) 1987-2008/Sep 09
 (c) 2008 Gale/Cengage
 File 16:Gale Group PROMT(R) 1990-2008/Sep 08
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 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 148:Gale Group Trade & Industry DB 1976-2008/Sep 16
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 File 674:Computer News Fulltext 1989-2006/Sep w1
 (c) 2006 IDG Communications
 *File 674: File 674 is closed (no longer updates).
 File 696:DIALOG Telecom. Newsletters 1995-2008/Sep 16
 (c) 2008 Dialog
 File 369:New Scientist 1994-2008/Aug w1
 (c) 2008 Reed Business Information Ltd.
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 610:Business Wire 1999-2008/Sep 17
 (c) 2008 Business Wire.
 *File 610: File 610 now contains data from 3/99 forward.
 Archive data (1986-2/99) is available in File 810.
 File 613:PR Newswire 1999-2008/Sep 17
 (c) 2008 PR Newswire Association Inc
 *File 613: File 613 now contains data from 5/99 forward.
 Archive data (1987-4/99) is available in File 813.

Set	Items	Description
S1	5997593	ANNOTAT? OR COMMENT OR COMMENTS OR COMMENTING OR MARK OR MARKS OR MARKING OR NOTAT?
S2	454248	S1(7N)(POLICY OR POLICIES OR RULE OR RULES OR PLAN OR PLANS OR STRATEG??? OR GUIDELINE? ? OR GUIDE()(LINE OR LINES) OR PROCEDURE? ? OR PROTOCOL? ? OR DEFINITION? ? OR SYSTEM? ? OR STANDARD? ? OR CONVENTION? ?)
S3	61053	S2(7N)(CREAT? OR GENERAT? OR PRODUC? OR MAKE OR MAKES OR MAKING OR MADE OR BUILD??? OR CONSTRUCT? OR INVENT? OR ESTABLISH?)
S4	9393343	VERSION? OR COPY OR COPIES OR REVISION? OR EDITION? OR PUBLICATION? OR VARIATION? OR ADAPTATION? OR DOCUMENT? ? OR INSTANCE? ?
S5	1322387	S4(7N)(FUTURE OR SUBSEQUENT OR SUCCESSIVE OR SUCCEEDING OR ENSUING OR NEXT OR NEW OR DIFFER??? OR LATER)
S6	320	S3(15N)S5
S7	254	S6 NOT PY>2004
S8	236	S3(10N)S5
S9	213	S8 NOT PY>2004

S10 139 RD S9 (unique items)
S11 1071 ANNOTAT?(7N)S5
S12 8 S10 AND S11
S13 131 S10 NOT S12
S14 565 ANNOTAT?(7N)(POLICY OR POLICIES OR RULE OR RULES)
S15 3 S14(7N)S5
S16 3 S15 NOT S12
S17 10 S14(15N)S5
S18 7 S17 NOT(S15 OR S12)
S19 5 S11 AND S14
S20 2 S19 NOT(S15 OR S12 OR S18)
S21 131 S13 NOT(S15 OR S18 OR S20)
S22 211 S3(7N)S5
S23 45 S11 AND ((ANNOTAT?)(3N)(STORE OR STORES OR SERVER OR SERVE-
 RS OR DATABASE OR DATABASES OR DATA()(BASE OR BASES)))
S24 42 S23 NOT (S12 OR S15 OR S18 OR S20)
S25 42 S24 NOT PY>2004
S26 23 RD S25 (unique items)

12/3,K/6 (Item 1 from file: 636)
DIALOG(R)File 636: Gale Group Newsletter DB(TM)
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MICROSOFT TO ADD DOCUMENT CONFERENCING TECHNOLOGY TO WINDOWS

Report on Microsoft , v 3 , n 3 , p N/A
Feb 13 , 1995

Language: English **Record Type:** Fulltext
Document Type: Newsletter ; Trade
Word Count: 179

...provides a communications infrastructure for applications such as joint editing of documents at remote sites, delivery of sales presentations to clients around the country, and **annotating documents from different locations**.

The T.120 **standards** for multipoint communications enable conferencing **products** from multiple vendors to seamlessly communicate with one another. The standards establish common protocols for multipoint data transmission over a variety of network types, and...

18/3,K/1 (Item 1 from file: 621)
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Precience's PCBNavigator Brings OrCAD and PADS Users Closer Together!

Business Wire , p 2252

May 25 , 2001

Language: English **Record Type:** Fulltext
Document Type: Newswire ; Trade
Word Count: 414

Most importantly, design integrity is maintained by keeping designs in sync with PCB ECO changes (Pin/Gate Swap, Reference Design rename, **Rules**, etc.). ECO changes may easily be back-**annotated** into OrCAD Capture through automatic Swap file (.swp) generation.

This updated **version** of PCBNavigator includes a **new** OLE Automation direct plug-in for OrCAD Capture version 9.2 (schematic) and PADS PowerPCB version 3.6 that facilitates netlist transfers, back-annotation, forwarding...

18/3,K/5 (Item 1 from file: 15)
DIALOG(R)File 15: ABI/Inform(R)
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Start-up unveils set of document mgmt. tools

Gaffin, Adam
Network World v11n6 pp: 29
Feb 7, 1994

ISSN: 0887-7661 **Journal Code:** NWW
Word Count: 372

This information includes the documents' location, file types and revision history. The software uses an object-oriented approach to storing data about individual **documents**, which lets users create **new compound documents** from existing ones, Reid said.

Users equipped with client software from Documentum can **annotate** documents and set **rules** for forwarding documents when they are done with them. The client software enables end users to query the server database through Documentum's Document Query...

26/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275: Gale Group Computer DB(TM)
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ADOBE TARGETS COLLABORATION -- New version of Acrobat stresses security, group annotation.(Product Announcement)

Clancy, Heather

Computer Reseller News , 10

March 12 , 2001

Document Type: Product Announcement ISSN: 0893-8377

Language: English **Record Type:** Fulltext

Word Count: 291 **Line Count:** 00028

- Support for XML and other tagged information stored within PDF files
- Heightened encryption and security, as well as support for digital signatures
- Ability to store comments and annotations in a central repository
- Improved installation and management utilities

26/3,K/3 (Item 3 from file: 275)
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HyperDesk offers product for managing small projects.(HyperDesk's GroupWorks 2.0 groupware software)(Product Announcement)

Mohan, Suruchi

Computerworld , v30 , n1 , p64(1)

Dec 26 , 1995

Document Type: Product Announcement ISSN: 0010-4841

Language: English **Record Type:** Abstract

Abstract: HyperDesk's \$199 GroupWorks 2.0 workgroup software helps small groups of people work together. Users of GroupWorks can share, edit and **annotate** documents, and **store** all files relevant to a particular project in a single location. The software is meant for simpler projects, such as creating a proposal, and establishes... ...area of communications for a project. GroupWorks stores all documents, regardless of originating application, in a common repository and permits anyone in the workgroup to **annotate** them. **Documents** created with **different** software can be attached to a view as an OLE object or as an image. The product is not meant for larger collaborative environments. It...

26/3,K/4 (Item 4 from file: 275)
DIALOG(R)File 275: Gale Group Computer DB(TM)
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Using collaborative filtering to weave an information Tapestry. (the Xerox Palo Alto Research Center's Tapestry experimental mail system) (Information Filtering)(Technical)(Cover Story)

Goldberg, David; Nichols, David; Oki, Brian M.; Terry, Douglas

Communications of the ACM , v35 , n12 , p61(10)

Dec , 1992

Document Type: Cover Story ISSN: 0001-0782

Language: ENGLISH **Record Type:** FULLTEXT; ABSTRACT

Word Count: 7011 **Line Count:** 00555

Abstract:

...It also maintains indexes on the stored documents so that queries over the document database can be efficiently executed. The document store is append-only.

* **Annotation store.** Provides storage of **annotations** associated with documents. The **annotation store** is also append-only.

* Filterer. Repeatedly runs a batch of user-provided queries over the set of documents. Those documents matching a query are placed...
...and categorize documents.

* Reader/Browser. Provides the user interface for accessing Tapestry services. This includes facilities for such tasks as adding/deleting/editing filters, retrieving **new documents**, displaying **documents**, organizing **documents** into folders, supplying **annotations**, and running ad hoc queries.

Tapestry uses a client/server model. Two styles of interaction with the server are envisioned. The preferred mode of interaction...

...to communicate their ratings of documents, annotations are provided. The following subsections provide a more detailed rationale for some of the architectural components.

Document and Annotation Stores

Ideally, the Tapestry store will save documents forever. With the decreasing price of disk storage, this is becoming increasingly practical. As will be explained in...disks.

Annotations are stored separately from documents, with links connecting each annotation to its associated document. It might seem more natural to combine documents and **annotations** into a single **store**, with the **annotations** to a document appended as additional fields. There are several reasons why this was not done. First, since annotations for a document arrive after the...mail messages and NetNews articles. It is not so straightforward to decide how to handle annotations. As explained in the previous subsection entitled "Document and **Annotation Stores**," **annotations** are not stored as fields of the document they annotate. However, this does not preclude TQL treating them as additional document fields, and indeed this...in use by a small number of researchers. The following subsections describe the implementation of various components of the current Tapestry system.

Database Manager

Tapestry **stores** documents, **annotations**, and filter queries in a commercial relational database management system provided by Sybase [11]. Information about messages is stored in a set of relational tables...

26/3,K/5 (Item 1 from file: 621)

DIALOG(R)File 621: Gale Group New Prod.Annou.(R)

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TMSSequoia Prizm Document Image Viewing Plug-in Version 4.0 Released with Expanded Annotation Capabilities; New Functionality Delivers the Power to Collaborate.

Business Wire , p 0235

June 4 , 2001

Language: English **Record Type:** Fulltext

Document Type: Newswire ; Trade

Word Count: 895

...Server Framework enables large corporate users to implement the full feature set of Prizm plug-in quickly and easily and includes CGI- and ASP-based Annotation Web Servers, a Pick and Click Batch Printing sample and other user profile identification and handling ASP examples.

26/3,K/8 (Item 4 from file: 621)

DIALOG(R)File 621: Gale Group New Prod.Annou.(R)

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AVISTAR(TM) VISUAL COLLABORATION SYSTEM DEBUTS

PR Newswire , p N/A

Dec 5 , 1994

Language: English **Record Type:** Fulltext

Document Type: Newswire ; Trade

Word Count: 1377

...then share the document with any group of networked users. All participants can then type and draw using their choice of colors and tools, and **store** snapshots of the **annotated document** for **future** reference.

26/3/K/13 (Item 1 from file: 16)
DIALOG(R)File 16: Gale Group PROMT(R)
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PDM Mark-Ups

Computer-Aided Engineering , p 82

Jan , 1997

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal ; Academic Trade

Word Count: 151

...policy, relationship, format, type, and program objects. Mark-up object is derived from a predefined annotation type object. Users can create a business object to **store** documents and **annotations**; by clicking on objects, users can view and mark up all the documents and related **annotations** together or separately. ForReview for Documentation's **new** features include support for: multiple selection of **documents** to view and mark up; mark-ups as annotation objects; automatically linking older versions of mark-ups to newer versions of the document; organizing mark...